

**RIVERDALE SPYDER™ HERBICIDE**

MSDS No. 408

## MATERIAL SAFETY DATA SHEET

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** Riverdale Spyder Herbicide

**Synonyms:** None

**Company Name:** Nufarm Americas Inc.  
Riverdale - A Nufarm Company  
1333 Burr Ridge Parkway, Suite 125A  
Burr Ridge, IL 60527-0866

**Phone Numbers:** **For Chemical Emergency, Spill, Leak, Fire, Exposure, Or Accident, Call CHEMTREC Day or Night: 1-800-424-9300.**  
For additional non-emergency information, call: 1-800-345-3330

**Date:** May 21, 2003

**Revisions:** New

**Supersedes:** None

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>MATERIAL</u>	<u>CAS NO.</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Sulfometuron methyl {Methyl 2-[[[(4,6-dimethyl-2-pyrimidinyl)amino]-carbonyl]amino]sulfonyl]benzoate Inert Ingredients	74222-97-2	75	None Established 25	5mg/m <sup>3</sup> 8 Hrs TWA A-4

Physical Properties

Form: Solid, dry flowable

Color: Off-White

Odor: None

Melting Point: N/A

Boiling Point: N/A

Solubility in H<sub>2</sub>O: Dispersible

Specific Gravity: (H<sub>2</sub>O=1) 1.47 @ 25° C

Bulk Density (Loose): 33 lb./cu. ft.

Bulk Density (Packed): 39 lb./cu. ft.

Vapor Pressure: N/A

Evaporation Rate: N/A

**3. HAZARDS IDENTIFICATION**Summary of Risks:

CAUTION! Causes (moderate) eye injury (irritation). Avoid contact with eyes or clothing.

Primary Entry Route(s): Ingestion

**Acute Hazards:** Oral LD50 (rat): > 5000mg/kg – very low toxicity by ingestion. Dermal LD50 (rabbit): >2000 mg/kg-primary skin irritant, not a sensitizer. Inhalation LC50 (Rats), 4 hr.: >5.3 mg/L. Eye irritation (rabbit): mild to moderate corneal irritation in unwashed eyes and mild conjunctival irritation in washed eyes. All effects reversed within 7 days.

**Potential Health Effects:** Based on animals data, eye contact with Spyder may cause eye irritation with discomfort, tearing, or blurring of vision.

Based on animal data, ingestion of high doses of Sulfometuron Methyl may lead to red blood cell destruction.

**Medical conditions which may be aggravated by contact:** None known.

<b>Ingredients Listed as a Carcinogen:</b>	IARC Monographs	No
	NTP:	No
	OSHA:	No
	ACGH:	No

#### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**If In Eyes:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Skin:** None

**Inhalation:** None

**Ingestion:** None

#### 5. FIRE FIGHTING MEASURES

##### Fire and Explosion

Flash Point (Test Method)	Non Flammable
Flammable Limits (% in Air)	LEL 0.092 g/L
Auto Ignition Temperature	N/A

##### Reactivity

Stability:	Stable
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Fire conditions
Hazardous Decomposition Products:	None known
Chemical Incompatibilities:	None known

##### Unusual Fire, Explosion and Reactivity Hazards:

Not a fire and explosion hazard. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase contamination hazard.

##### In Case of Fire:

Evacuate personnel to a safe area. Wear self-contained breathing apparatus. Use water spray. Cool tank/container with water spray.

##### Extinguishing Media:

Water spray, chemical foam, dry chemical, CO<sub>2</sub>. Contain all runoff.

## 6. HANDLING AND STORAGE

Precautions to be taken in handling and storage: Read label for storage and disposal instructions. Store below 140°C. Store in well ventilated area. Keep container tightly closed. Do not store or consume food, drink, or tobacco in area where they may become contaminated with this material. Do not store with other pesticides, fertilizer, food or feed. Keep out of reach of children.

In case of spills: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate personal protective equipment during clean up. Dike spill. Prevent liquid from entering sewers, waterways, or low areas. Shovel or sweep up. If spill area is on ground near valuable plants or trees, remove top 2 inches of soil after initial cleanup.

## 7. EXPOSURE CONTROLS/PERSONAL PROTECTION

Applicators and other handlers must wear: Long-sleeved shirt and long pants, waterproof gloves, shoes plus socks.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## 8. DISPOSAL CONSIDERATIONS

### Product Disposal:

Do not contaminate water supply, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

### Container Disposal:

Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## 9. TOXICOLOGICAL INFORMATION

### Animal Data

Inhalation 4 hour LC50:	>5.3 mg/L in rats (Very low toxicity by inhalation)
Skin absorption LD50:	>5000 mg/kg in rabbits (Slightly to moderately toxic by contact)
Oral LD50:	>55000 mg/kg in rats (Very low toxicity by ingestion)

Spyder is not a skin irritant, but is a moderate eye irritant, and is not a skin sensitizer in animals.

Single inhalation exposure with Spyder (Sulfometuron Methyl 75%) produced no clinical signs of toxicity and no lesions were observed during pathological examination of tissue. Repeated oral studies with the active ingredient, Sulfometuron Methyl, caused decreased body weight gain, liver changes, red blood cell hemolysis, and altered white blood cell differentiation. Long-term exposure caused mild hemolytic anemia, decreased body weight, alteration of clinical chemical parameters, and changes in the bile duct.

Spyder (Sulfometuron Methyl 75%) administered in single high dermal doses caused temporary severe to slight skin irritation and sporadic weight loss.

Animal testing indicates that the active ingredient, Sulfometuron Methyl, does not have carcinogenic effects. In a two-generation rat reproduction study with the active ingredient, Sulfometuron Methyl, decreased numbers of pups were observed at the 5000 ppm level, a dose that was also maternally toxic. No reproductive effects were observed at 500 ppm.

Sulfometuron methyl did not produce developmental toxicity when tested in animals. Sulfometuron methyl did not produce genetic damage in bacterial or mammalian cell cultures.

## 10. ECOLOGICAL INFORMATION

### AQUATIC TOXICITY:

Sulfometuron Methyl

48 hour NOEC - Daphnia magna: > 150 mg/L

96 hour LC50 - Rainbow trout: > 148 mg/L

96 hour LC50 - Bluegill sunfish: > 150 mg/L

### AVIAN TOXICITY:

Sulfometuron Methyl

Acute Dietary LC50 - Mallard Duck: > 5000 ppm

Acute Dietary LC50 - Bobwhite Quail: > 5620 ppm

## 11. STABILITY AND REACTIVITY

### Chemical Stability

Stable at normal temperatures and storage conditions.

### Incompatibility with Other Materials

None reasonably foreseeable.

### Decomposition

Decomposition will not occur.

### Polymerization

Polymerization will not occur

## 12. TRANSPORTATION AND REGULATORY INFORMATION

### Shipping Information

DOT/IMO

Proper Shipping: Not Regulated

### DOT Classification

Not classified as hazardous material.

<b>13. OTHER INFORMATION</b>
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Title III Hazard Classifications Sections 311, 312:

Acute : Yes  
Chronic : No  
Fire : No  
Reactivity : No  
Pressure : No

<u>NFPA, NPCA-HMIS Rating</u>	0	Low
Health : 1	1	Slight
Flammability : 1	2	Moderate
Reactivity : 0	3	High
	4	Severe

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.